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## WHAT IS CLAIMED IS:

- 1. An ink jet recording element comprising a support having
  thereon an image-receiving layer comprising non-silicon-containing inorganic
  oxide particles, said particles having their surfaces treated with a silane coupling
  agent having a hydrophilic, organic moiety.
- The recording element of Claim 1 wherein said image-receiving
  layer contains said particles in an amount of from about 40 to about 95% by weight.
  - The recording element of Claim 1 wherein said inorganic oxide particles are pseudo-boehmite, alumina, zirconia, titania, yttria or ceria.
  - 4. The recording element of Claim 1 wherein said inorganic oxide particles are treated with said silane coupling agent in an amount of from about 0.01 to about 0.5 mmol/gram.
- 5. The recording element of Claim 1 wherein said silane coupling agent is N-(trimethoxysilylethyl)benzyl-N,N,N-trimethylammonium chloride; N-trimethoxysilylpropyl-N,N,N-tributylammonium chloride; octadecyldimethyl(3-trimethoxysilylpropyl)ammonium chloride; or N-(3-triethoxysilylpropyl)-4,5-dihydroimidazole.
  - The recording element of Claim 1 wherein said image-receiving layer contains a polymeric binder.
- The recording element of Claim 6 wherein said polymeric
  binder is poly(vinyl alcohol).

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- 8. The recording element of Claim 6 wherein said polymeric binder is present in an amount of from about 5 to about 30% by weight.
- The recording element of Claim 1 wherein said imagereceiving layer is present at a thickness of from about 1 µm to about 60 µm.
  - 10. The recording element of Claim 1 wherein said inorganic oxide particles have a particle size of from about 5 nm to about 1,000 nm.
- 10 11. The recording element of Claim 1 wherein a base layer is present in between said support and said image-receiving layer.
  - The recording element of Claim 11 wherein said base layer comprises inorganic particles and a polymeric binder.
  - 13. The recording element of Claim 12 wherein said inorganic particles are calcium carbonate, calcined clay, aluminosilicates, zeolites or barium sulfate.
- 20 14. The recording element of Claim 12 wherein said polymeric binder is a styrene/acrylic latex, styrene/butadiene latex or poly(vinyl alcohol).